## **ABSTRACT**

A system and method for evaluating similarity among multiple data structures are provided. In one embodiment, a number of entries are created in a database and a relative entropy value corresponding to each entry is calculated. Each data structure is analyzed and at least one substructure is generated for each data structure as a result of the analysis. This at least one substructure pertaining to each data structure is matched to the entries in the database to obtain matching entries. Finally, a match value is generated using the relative entropy values corresponding to the matching entries.